Shell Morlina S4 B 460

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SECTION	1. IDENTIFICATION		
Produ	uct name	: Shell Morlina S	4 B 460
Produ	uct code	: 001F2647	
Manu	afacturer or supplier	's details	
Manu	facturer/Supplier	: Shell Oil Prod PO Box 4427 Houston TX 77 USA	
	Request omer Service	: (+1) 877-276-7 :	285
Emer	gency telephone nu	mber	
		: 877-504-9351	
Healt	h Information	: 877-242-7400	
Reco	mmended use of the	e chemical and restric	ctions on use
Reco	mmended use	: Machine oil.	
SECTION	2. HAZARDS IDENT	IFICATION	

GHS classification in accordance with 29 CFR 1910.1200

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements Hazard pictograms :	No Hazard Symbol required
Signal word	: No signal word
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
Precautionary statements	Prevention: No precautionary phrases. Response: No precautionary phrases. Storage: No precautionary phrases.
	Disposal:

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No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Blend of polyolefins and additives.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Dialkyl thiophosphate ester	Propanoic acid, 3-[[bis(2- methylpropoxy) phosphinothi- oyl]thio]-2- methyl-	268567-32-4	0.1 - 0.99

SECTION 4. FIRST-AID MEASURES

If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye contact	:	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Protection of first-aiders	:	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
Indication of any immediate	:	Treat symptomatically.

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medical attention and special treatment needed

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional advice	:	For guidance on selection of personal protective equipment

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				this Safety Data Sheet. disposal of spilled material see Chapter 13 of Sheet.	
SECTI	ON 7. HANDLING AND ST	OR	AGE		
Technical measures		:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.		
Advice on safe handling		:	Avoid inhaling var When handling pr worn and proper h	oduct in drums, safety footwear should be nandling equipment should be used. of any contaminated rags or cleaning mate-	
A	voidance of contact	:	Strong oxidising a	agents.	
P	roduct Transfer	:		the potential to be a static accumulator. and bonding procedures should be used nsfer operations.	
	urther information on stor- ge stability	:	place.	ghtly closed and in a cool, well-ventilated led and closable containers.	
			Store at ambient	emperature.	
Pa	ackaging material	:	Suitable material: steel or high dens Unsuitable materi		
C	ontainer Advice	:		ainers should not be exposed to high tem- e of possible risk of distortion.	

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral		TWA (Inhal- able fraction)	5 mg/m3	ACGIH

Biological occupational exposure limits

No biological limit allocated.

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Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Engineering measures	:	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.
		Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
		General Information: Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.
		Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or mainte-
		nance. Retain drain downs in sealed storage pending disposal or
		subsequent recycle.
		Always observe good personal hygiene measures, such as washing hands after handling the material and before eating.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment

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Respiratory protection

No respiratory protection is ordinarily required under normal conditions of use.

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		tions should If engineerin tions to a lev select respir cific conditio Check with i Where air-fil priate combi Select a filte	ce with good industrial hygiene practices, precau- be taken to avoid breathing of material. Ing controls do not maintain airborne concentra- vel which is adequate to protect worker health, atory protection equipment suitable for the spe- ins of use and meeting relevant legislation. Trespiratory protective equipment suppliers. tering respirators are suitable, select an appro- nation of mask and filter. It suitable for the combination of organic gases as [Type A/Type P boiling point >65°C (149°F)].
	protection emarks	gloves appro US: F739) m suitable che gloves Suita usage, e.g. f sistance of g glove suppli Personal hy Gloves mus gloves, hand cation of a m For continue through time 480 minutes short-term/s recognize th may not be a time maybe and replaced a good pred dependent of Glove thickn	contact with the product may occur the use of byed to relevant standards (e.g. Europe: EN374, hade from the following materials may provide mical protection. PVC, neoprene or nitrile rubber bility and durability of a glove is dependent on frequency and duration of contact, chemical re- glove material, dexterity. Always seek advice from ers. Contaminated gloves should be replaced. giene is a key element of effective hand care. t only be worn on clean hands. After using ds should be washed and dried thoroughly. Appli- on-perfumed moisturizer is recommended. bus contact we recommend gloves with break- e of more than 240 minutes with preference for > where suitable gloves can be identified. For plash protection we recommend the same, but at suitable gloves offering this level of protection available and in this case a lower breakthrough acceptable so long as appropriate maintenance ment regimes are followed. Glove thickness is not ictor of glove resistance to a chemical as it is on the exact composition of the glove material. tess should be typically greater than 0.35 mm on the glove make and model.
Eye p	protection		handled such that it could be splashed into eyes, wwear is recommended.
Skin a	and body protection	work clothes	ion is not ordinarily required beyond standard s. actice to wear chemical resistant gloves.
Prote	ctive measures		otective equipment (PPE) should meet recom- ional standards. Check with PPE suppliers.
Thern	nal hazards	: Not applicat	le

Environmental exposure controls

General advice

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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				of the environmer necessary, prever charged to waste municipal or indus discharge to surfa Local guidelines of	al protection legislation. Avoid contamination at by following advice given in Chapter 6. If nt undissolved material from being dis- water. Waste water should be treated in a strial waste water treatment plant before ace water. on emission limits for volatile substances I for the discharge of exhaust air containing
SEC	TION 9	. PHYSICAL AND CHE	ΞΜΙΟ		3
	Appear	ance	:	Liquid at room te	mperature.
	Colour		:	brown	
	Odour		:	Slight hydrocarbo	on
	Odour ⁻	Threshold	:	Data not availabl	e
	рН		:	Not applicable	
	pour po	bint	:	-36 °C / -33 °F Method: ASTM D	997
	Initial b range	oiling point and boiling	:	> 280 °C / 536 °F estimated value(s	
	Flash p	point	:	>= 210 °C / >= 4	10 °F
				Method: ASTM D	992 (COC)
	Evapor	ation rate	:	Data not availabl	e
	Flamma	ability (solid, gas)	:	Data not availabl	e
		explosion limit / upper bility limit	:	Typical 10 %(V)	
		explosion limit / Lower bility limit	:	Typical 1 %(V)	
	Vapour	pressure	:	< 0.5 Pa (20 °C /	68 °F)
				estimated value(s)
	Relative	e vapour density	:	> 1 estimated value(s	5)
	Relative	e density	:	0.800 - 1.000 (15	5 °C / 59 °F)
	Density	/	:	800 - 1,000 kg/m Method: Unspeci	

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	Solubili Wat	ty(ies) er solubility	:	negligible	
		bility in other solvents	:	Data not availabl	e
	Partition octanol	n coefficient: n- /water	:	log Pow: > 6 (based on inform	ation on similar products)
	Auto-ignition temperature		:	> 320 °C / 608 °F	-
	Decomposition temperature		:	Data not availabl	e
	Viscosity Viscosity, dynamic		:	Data not availabl	e
	Visc	osity, kinematic	:	414 - 506 mm2/s	(40.0 °C / 104.0 °F)
				Method: ASTM D	9445
	Explosi	ve properties	:	Not classified	
	Oxidizing properties		:	Data not availabl	e
Conductivity		:	This material is n	ot expected to be a static accumulator.	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	:	Stable.
Possibility of hazardous reac- tions	:	Reacts with strong oxidising agents.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Strong oxidising agents.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Information on likely routes of exposure

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Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Product:

TTOULOU	
Acute oral toxicity	LD50 (rat): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

Components:

Dialkyl thiophosphate ester:

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

Germ cell mutagenicity

Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

Carcinogenicity

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Version Revision Date: SDS Number: Print Date: 05/01/2018 1.5 04/30/2018 800010017097 Date of last issue: 12/15/2017 **Product:** Remarks: Not a carcinogen., Based on available data, the classification criteria are not met. IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. **Reproductive toxicity** Product: 1 Remarks: Not a developmental toxicant., Does not impair

fertility., Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Not an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

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	Basis fo	or assessment	:	for this product. Information given and the ecotoxico Unless indicated of tive of the product ponent(s).(LL/EL/I	lata have not been determined specifically is based on a knowledge of the components logy of similar products. otherwise, the data presented is representa- as a whole, rather than for individual com- L50 expressed as the nominal amount of o prepare aqueous test extract).
	Ecotox	icity			
	Produc Toxicity ty)	rto fish (Acute toxici-	:	Remarks: LL/EL/II Practically non to Based on availabl	
		to daphnia and other invertebrates (Acute	:	Remarks: LL/EL/II Practically non to Based on availabl	
	Toxicity icity)	r to algae (Acute tox-	:	Remarks: LL/EL/II Practically non tox Based on availabl	
	Toxicity icity)	to fish (Chronic tox-	:	Remarks: Data no	t available
		to daphnia and other invertebrates (Chron- ty)	:	Remarks: Data no	ot available
	Toxicity (Acute 1	to microorganisms toxicity)	:	Remarks: Data no	ot available
	Persist	ence and degradabili	ity		
	Produc Biodegr	: t: radability	:	Major constituents	dily biodegradable. s are inherently biodegradable, but contains nay persist in the environment.
	Bioacc	umulative potential			
	Produc Bioaccu	e <u>t:</u> umulation	:	Remarks: Contain cumulate.	s components with the potential to bioac-

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	lity in soil			
<u>Prod</u> Mobil		:		under most environmental conditions. will adsorb to soil particles and will not be
			Remarks: Floats	on water.
Othe	r adverse effects			
Prod	uct:			
Additi matio	ional ecological infor- n	:	ozone creation po Product is a mixtu be released to air conditions of use Poorly soluble mi	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues :	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth- ods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
	Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
Contaminated packaging :	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Remarks	: Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

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US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks

: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

*: This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

EINECS : All components listed or polymer exempt.

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TSCA DSL		: All components li : All components li	

SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

Full text of other abbreviations

ACGIH OSHA Z-1 ACGIH / TWA OSHA Z-1 / TWA Abbreviations and Acronyms	USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants 8-hour, time-weighted average 8-hour time weighted average The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
	ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Chemicals Agency EINECS = The European Inventory of Existing Commercial Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals

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		IATA = Interna IC50 = Inhibito IL50 = Inhibito IMDG = Interna INV = Chinese IP346 = Institu determination of KECI = Korea LC50 = Lethal LD50 = Lethal LL/EL/IL = Leth LL50 = Lethal MARPOL = Int Pollution From NOEC/NOEL = served Effect L OE_HPV = Oc PBT = Persiste PICCS = Philip Substances PNEC = Predic REACH = Reg Chemicals RID = Regulati gerous Goods SKIN_DES = S STEL = Short f TRA = Targete TSCA = US To TWA = Time-V	ational Maritime Dangerous Goods Chemicals Inventory ute of Petroleum test method N° 346 for the of polycyclic aromatics DMSO-extractables Existing Chemicals Inventory Concentration fifty Dose fifty per cent. hal Loading/Effective Loading/Inhibitory loading Loading fifty ernational Convention for the Prevention of Ships = No Observed Effect Concentration / No Ob- evel coupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration istration Evaluation And Authorisation Of

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data Sheet	:	The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN